

Math 211
Quiz 09

R 18 Jul 2019

Your name : _____

Exercise

(2 pt) Recall the three elementary row operations:

1. Interchange two rows.
2. Multiply a row by a nonzero scalar.
3. Add a scalar multiple of one row to another.

Using the elementary row operations, show that the augmented matrix

$$A = \left[\begin{array}{ccc|c} 5 & -5 & 17 & -2 \\ 1 & -1 & 3 & 0 \end{array} \right] \quad (1)$$

has reduced row echelon form (RREF)

$$\left[\begin{array}{ccc|c} 1 & -1 & 0 & 3 \\ 0 & 0 & 1 & -1 \end{array} \right]. \quad (2)$$